

ABSTRACT

5 The invention concerns an aprotic electrolytic composition
located in the separator and in at least one composite electrode
containing a powder of an active electrode material, and if necessary an
electronic conduction additive of an electrochemical generator. The
electrolytic composition comprises a first polymer matrix consisting of a
10 polyether and at least a second polymer matrix, macroscopically
separated, and also at least an alkaline salt as well as a polar aprotic
solvent: The polymer matrices are capable of being swollen by at least
one of the polar aprotic solvents. The solvent or mixture of solvents is
unevenly distributed between the polymer matrices. The invention also
15 concerns an electrochemical generator comprising a negative electrode
and positive electrode reversible to alkaline ions and a separator with
polymer electrolyte, the electrolytic component of which is the
composition described above. The invention further concerns the
manufacture in two or three steps of a sub-assembly of an
20 electrochemical generator by coating an electrode support with a
composite electrode containing the second matrix, followed by a surface
coating on the electrode resulting from the preceding step with a
solution containing the first polymer matrix so as to form the separator
wholly or partly.

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